Listing of Claims:

1. (Currently Amended) A method for transmitting data packets, ~~where~~ comprising the steps of:

[[-]] indicating a packet data connection ~~is indicated~~ with a connection identifier and indicating a ~~the~~ destination of the packet data connection ~~is indicated~~ with a destination identifier[[,]];

[[-]] sorting data packets ~~are sorted (504, 505)~~ into initialized transmission queues before transmission[[,]];

[[-]] involving the ~~a~~ destination identifier ~~is involved in the~~ in an initialization of a transmission queue[[,]];

[[-]] relating at least one connection identifier ~~is related~~ to ~~each~~ at least one transmission queue, [[-]] a set of proper connection identifiers ~~is~~ comprises the ~~a~~ union of the connection identifiers related to ~~the~~ initialized transmission queues; and

[[-]] placing a data packet having a proper connection identifier ~~is placed (505)~~ to the transmission queue determined by the connection identifier[[,]]; ~~characterized in that~~

[[-]] wherein the initialization of [[a]] the new transmission queue is triggered ~~(506, 508)~~ by a data packet not having a proper connection identifier and having a destination identifier, and after [[a]] successful initialization of a the new transmission queue, the data packet that triggered the initialization is placed ~~(509) to~~ in the new transmission queue and a sender of a data packet is notified if the initialization of the new transmission queue is not successful.

2. (Currently Amended) ~~A~~ The method ~~according to~~ of claim 1, ~~characterized in that the~~ wherein activation of ~~a~~ the new transmission queue is triggered by ~~a~~ the data packet not having a queue identifier.

3. (Currently Amended) ~~A~~ The method ~~according to~~ of claim 1, ~~characterized in that the~~ wherein activation of ~~a~~ the new transmission queue is triggered by a data packet having a queue identifier that is not a proper queue identifier.

3

4. (Canceled)

5. (Currently Amended) ~~A~~ The method ~~according to~~ of claim 1, ~~characterized in that~~ wherein the connection identifier comprises a certain data field in a protocol packet header ~~is used as the connection identifier~~.

6. (Currently Amended) ~~A~~ The method ~~according to~~ of claim 5, ~~characterized in that~~ wherein the connection identifier comprises a flow label of General Packet Radio Service Tunneling Protocol header ~~is used as the connection~~ and the destination identifier comprises ~~and~~ a certain cellular network subscriber identifier ~~is used as the destination identifier~~.

7. (Currently Amended) ~~A~~ The method ~~according to~~ of claim 1, ~~characterized in that~~ further comprising the step of:

reserving transmission resources in a radio access network ~~are reserved~~[[,]] when the initialization of ~~a~~ the new transmission queue is triggered.

8. (Currently Amended) ~~A~~ The method ~~according to~~ of claim 7, ~~characterized in that~~ wherein transmission resources are reserved using Radio Access Network Application Part in Universal Mobile Communication System.

9. (Currently Amended) A network element, ~~which comprises~~ comprising:

means for storing data packet to transmission queues[[,]];

means for indicating ~~(804)~~ the connections related to each transmission queue with connection identifiers[[,]];

means for detecting ~~(802)~~ a connection identifier in a data packet[[,]]; and

means for placing ~~(805)~~ a data packet to an initialized transmission queue whose connection identifier is equal to the connection identifier in the data packet[[,]] ~~characterized in that it further comprises~~; and

means for triggering ~~(806)~~ the initialization of a new transmission queue ~~on the~~ upon arrival of a data packet not having a connection identifier equal to

4

any ~~of the~~ connection identifiers of ~~the~~ transmission queues and having a destination identifier,

wherein a sender of a data packet is notified if the initialization of the new transmission queue is not successful.

10. (Currently Amended) ~~A~~ The network element ~~according to~~ of claim 9, ~~characterized in that it is a~~ wherein the network element comprises an element of a cellular network.

11. (Currently Amended) ~~A~~ The network element ~~according to~~ of claim 10, ~~characterized in that it is a~~ wherein the network element comprises an element of a Universal Mobile Telecommunication System.

12. (Currently Amended) ~~A~~ The network element ~~according to~~ of claim 11, ~~characterized in that it is~~ wherein the network element comprises a radio network controller.

13. (Currently Amended) ~~A~~ The network element ~~according to~~ of claim 10, ~~characterized in that it is a~~ wherein the network element ~~of~~ comprises an element of a General Packet Radio Service core network.

14. (Currently Amended) ~~A~~ The network element ~~according to~~ of claim 13, ~~characterized in that it is~~ wherein the network element comprises a Serving GPRS Supporting Node.

15. (New) A network element, comprising:

a buffer for storing data packet to transmission queues;

a transmission queues block for indicating connections related to at least one transmission queue with connection identifiers;

a connection identifier detection block for detecting a connection identifier in a data packet;

an adder for placing a data packet into an initialized transmission queue having a connection identifier which is equal to the connection identifier in the data packet; and

5

a queue initialization triggering block for triggering the initialization of a new transmission queue upon arrival of a data packet not having a connection identifier equal to any connection identifiers of transmission queues and having a destination identifier;

wherein a sender of a data packet is notified if the initialization of the new transmission queue is not successful.